



Applicant(s): Michael Wojtowicz

Application No.: 09/833,372

Filed:

April 12, 2001 -

For: Gan HBT SUPERLATTICE BASE

STRUCTURE

Group Art Unit: 2815

Examiner:

Baumeister, Bradley W.

CERTIFICATE OF MAILING

I hereby certify that this paper is being deposited with the United States Postal Service as first class mail in an envelope addressed to: Commissioner of Patents and Trademarks, Attention: Assistant Commissioner for Patents, Washington, D.C. 20231, on this date.

30 -

Date

John S. Paniaguas Registration No. 31,051 Attorney for Applicant(s)

AMENDMENT TRANSMITTAL

Commissioner of Patents and Trademarks ATTENTION: Assistant Commissioner for Patents Washington, D.C. 20231

Sir:

Transmitted herewith is an amendment/reply in the above-identified application.

1. () A paper requesting correction/substitution of drawings is attached.

2. Fee for Claims

(X) No additional fee is required.

The fee for additional claims in accordance with 37 C.F.R. §1.16(b)-(d) has been calculated as shown below:

					SMALL ENTITY		OTHER THAN A SMALL ENTITY	
	Claims Remaining After Amendment	Highes Previous fo	sly Paid	Present Extra	Rate	Additional Fee	Rate	Additional Fee
Total	1	Minus	20		x 9		x 18	
Indep.		Minus	6		X 42		x 84	
Fee for Multiple Dependent Claims				+140		+280		
TOTAL ADDITIONAL F							OR	

3.	Meth	od of Payment of F	ees		•			
	, ()	Enclosed is our fi	m check in the a	imount of:	\$	••		
	()	Charge \$	to Deposit A	ccount No.	50-1214.			
4.	(X)	The Commissione this application ur overpayment, to I as by a check bei even entirely miss Account No. 50-1	nder 37 C.F.R. §§ Deposit Account ng in the wrong a sing, the Commis	§1.16-1.17 d No. 50-1214 amount, uns ssioner is au	luring its enti I. Should no igned, post-o thorized to c	ire pendency, or proper paymer dated, otherwise	credit any at be enclosed be improper or in	nerewith, formal or
				Resp	ectfully Sub	mitted,		
	Dece (Date	ember <u>37</u> , 2002 e)	Ву:	John Regi	n S. Paniagu stration No.	20 20 20 20 20 20 20 20 20 20 20 20 20 2	- yeur	- .

KATTEN MUCHIN ZAVIS Rosenman 525 West Monroe Street, Suite 1600 Chicago, Illinois 60661-3693 (Direct) Phone No. (312) 902-5312 (Direct) Fax No. (312) 577-4532





IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re applica	ation of:	(Certificate of Mailing) (*** *** *** *** *** *** *** *** *** *				
in to approximent of		I hereby certify that this paper is being				
Michael Wojtowicz		deposited with the United States Postal Service with sufficient postage as first class				
Serial No.:	09/833,372	mail in an envelope addressed to: Commissioner of Patents and Trademarks,				
Filed:	April 12, 2001) Washington, D.C. 20231 on this date:)12-30-02-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1				
For:	GaN HBT SUPERLATTICE BASE STRUCTURE	Date John S Paniaguas				
Group Art U	Jnit: 2815	Registration No. 32051 Registration No. 32051 RESPONSE				
Examiner:	Baumeister, Bradley W.	CENED OCH CENTE				
OFFICE ACTION RESPONSE						
	ommissioner for Patents n, D.C. 20231	2800				

In response to the Office Action dated August 28, 2002, issued in the above-identified application, please enter and consider the following amendment and remarks.

IN THE SPECIFICATION:

Sir:

Please amend paragraph [0005] on page 2 as follows:

[0005] In a homojunction bipolar transistor, holes are ejected from the emitter layer into the base layer as a result of the forward biased emitter junction. The injection of holes into the base layer results in a lower cut off frequency and lower current gain of the device resulting in lower efficiency and a lower frequency of operation of the device. In order to reduce the hole injection, the base p-doping is normally made lower than the emitter. Unfortunately, such a

